UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 1 REGION 9 2 In the matter of: 3 San Gabriel Valley Superfund Sites, 4 Areas 1-4 5 RESPONDENTS: 6 Teledyne Industries, Inc. 7 11361 Sunrise Park Drive Rancho Cordova, CA 95742 8 U.S. EPA Docket No. 94 - 09 9 Ted Levine Drum Co. 1807 North Chico Ave. 10 South El Monte, CA 91733 Proceeding Under Section 106(a) of the 11 Comprehensive Environmental Response, Compensation, and Liability Act of 1980) 12 (42 U.S.C. § 9606(a)). 13 14 15 UNILATERAL ADMINISTRATIVE ORDER FOR 16 REMEDIAL INVESTIGATION 17 18 19 20 21 22 23 24 25

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I. AUTHORITY

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This Administrative Order ("Order") is issued on this date pursuant to the authority vested in the President of the United States by Section 106(a) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, 42 U.S.C. §106(a), as amended by the Superfund Amendments and Reauthorization Act of 1986, Pub. L. 99-499 ("CERCLA"). The President delegated this authority to the Administrator of the United States Environmental Protection Agency ("EPA" or "Agency") by Executive Order 12580, January 23, 1987, 52 Fed. Reg. 2923, and further delegated it to the Assistant Administrator for Solid Waste and Emergency Response and the Regional Administrators by EPA Delegation Nos. 14-8-A and 14-14-C. This authority has been redelegated to the Director, Hazardous Waste Management Division, EPA, Region 9 ("Director") by Region 9 Delegations 1290.41 and 1290.42.

II. DEFINITIONS

- A. The San Gabriel Valley Superfund Site, Areas 1-4 are located in suburban Los Angeles County in Southern California. There are four areas of groundwater contamination listed on the National Priorities List (San Gabriel Valley Areas 1-4).

 Included within the sites are significant portions of the cities of La Puente, City of Industry, Azusa, Baldwin Park, Irwindale, West Covina, El Monte, South El Monte, Monrovia, Arcadia, Rosemead, and Alhambra.
- B. Area 1 of the San Gabriel Valley Superfund Site was placed on the National Priorities List due to contamination of groundwater by tetrachloroethene ("PCE") and other organic

- solvents. Area 1 of the San Gabriel Valley Superfund Site includes groundwater contamination located in the cities of EL Monte and South EL Monte and neighboring areas in Los Angeles County.
- C. The Ted Levine Drum Company is a facility

 ("Respondents facility") located at 1729 1817 North Chico

 Avenue, South El Monte, California. The Respondents' facility is located in Area 1 of the San Gabriel Valley Superfund Site.
- D. Respondents' facility and every location at which work is being performed pursuant to this Order shall be referred to as the "Site" for the purposes of this Order.
- E. "Day" means calendar day unless otherwise noted in this Order.

III. PARTIES BOUND

A. This Order shall apply to and be binding upon Teledyne Industries Incoporated, a Delaware Corporation ("Teledyne"), and Ted Levine Drum Company, a California Corporation ("Ted Levine Drum"), (hereinafter referred to as or "Respondents"), their agents, successors and assigns. No change in ownership or operational status will alter Respondents' obligations under this Order. Respondents shall provide a copy of this Order to all contractors, subcontractors, laboratories, and consultants which are retained by Respondents to perform the work required by this Order, within five (5) days after the Effective Date of this Order or within five (5) days of retaining their services. Notwithstanding the terms of any contract or agreement, Respondents are responsible for compliance with this Order and for ensuring that their employees, contractors, and agents comply

with this Order.

B. Respondents shall not convey any title, easement, or other interest it may have in any property comprising the Respondents' respective facility, and Respondents shall not convey any interest in the corporation, without a provision permitting the continuous implementation of the provisions of this Order. Respondents shall provide a copy of this Order to any subsequent owner(s) or successor(s) before any ownership rights are transferred. Respondents shall advise EPA in advance of any anticipated transfer of interest.

IV. FINDINGS OF FACT

- A. Ted Levine Drum has operated a plastic and steel drum reconditioning and storage facility at the Respondents' facility since approximately 1984. The Respondents' facility is owned by Teledyne and leased to Ted Levine Drum Co.
- B. Teledyne purchased the Respondents' facility in approximately 1970. The Respondents' facility was used for wax injection and heat treating by Teledyne until approximately 1983. During this period various chemicals were stored and used at the site including film developers and fixers, caustics, acids and penetrant oils.
- C. The Respondents' facility includes a former lagoon area. The lagoon area received process wash water from 1954 until 1964 when it was backfilled. A 1000 gallon below grade clarifer was used at the Respondents' facility from approximately 1965 until 1987 to hold waste water discharge. A new 1,000 gallon above grade clarifier was installed in 1987 and uses the same outlet connection to the sewer line used by the "old"

clarifier. The Respondents' facility also contains a former septic tank, leach field, and various floor drains.

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- D. In December, 1991, Teledyne submitted a workplan to the Regional Water Quality Control Board Los Angeles Area (RWQCB) for investigation of soil contamination at the Respondents' facility. The RWQCB deemed the workplan insufficient to delineate the lateral and vertical distribution of both vapor and non-vapor phase soil contamination.
- E. Despite warnings of inadequacy from the RWQCB that the workplan only partially adressed the investigations needed,

 Teledyne proceeded with sampling without approval from the RWQCB in September, 1992.
- Holding times were exceeded for more than half the soil F. samples collected and submitted for chlorinated volatile organic compound (VOC) analyses during the September, 1992 sampling. The remaining soil samples submitted for VOC analyses were held to within one or two days of the maximum holding time for VOC Despite the extended holding time, VOC contamination analyses. was confirmed in a number of samples. Due to the extended holding time, EPA and the RWQCB consider the detected values to be lower than actual concentrations. VOC contamination found at the site included tetrachloroethene (PCE) as high as 310 ug/kg, trichloroethene (TCE) as high as 50 ug/kg, cis- 1,2 dichloroethene (DCE) as high as 19 ug/kg, and 1,1- dichloroethane (DCA) as high as 33 ug/kg.
- G. Analytical results also confirmed discharge of acids (pH as low as 3.6 and sulfates as high as 2,700 mg/kg) and heavy metals at the site. Lead, chromium and nickel were reported

above their respective soluble threshhold concentration limits (STLCs).

H. Depth to groundwater in the vicinity of the Respondents' facility is shallow and many of the contaminants identified in soil samples collected at the Respondents' facility have been found in nearby groundwater monitoring wells.

V. CONCLUSIONS OF LAW

- A. Respondents' facility is a "facility" as defined in Section 101(9) of CERCLA, 42 U.S.C. §9601(9).
- B. Respondents are "persons" as defined in Section 101(21) of CERCLA, 42 U.S.C. §9601(21).
- C. Analyses of samples collected during investigations conducted at the Respondents' facility indicate the presence of TCE, PCE, cis- 1,2 DCE, DCA, lead, chromium and nickel. These substances are "hazardous substances" as defined in Section 101(14) of CERCLA, 42 U.S.C. §9601(14).
- D. The past, present, and potential migration of hazardous substances from Respondents' facility constitutes an actual or threatened "release" as defined in Section 101(22) of CERCLA, 42 U.S.C. §9601(22).
- E. Respondents either own or operate a facility where hazardous substances have come to be located. Respondents are potentially responsible parties as defined in Section 107(a) of CERCLA, 42 U.S.C. §9607(a).

VI. DETERMINATIONS

A. The Director has determined that an actual or threatened release of hazardous substances from the Respondents' facility may present an imminent and substantial endangerment to

the public health or welfare or the environment.

- B. The actions required by this Order are necessary to protect the public health, welfare and the environment.
- C. If performed satisfactorily, the actions required by this Order are consistent with the National Contingency Plan, 40 C.F.R. Part 300 ("NCP").

VII. NOTICE TO THE STATE

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Pursuant to Section 106(a) of CERCLA, 42 U.S.C. §9606(a), EPA has notified the State of California of the issuance of this Order by providing the Regional Water Quality Control Board and California Department of Toxic Substances Control a copy of this Order.

VIII. WORK TO BE PERFORMED

A. General Provisions

1. All work shall be conducted in accordance with:

CERCLA; the NCP; EPA "Guidance for Conducting Remedial Investigations and Feasibility Studies Under CERCLA" (EPA, October 1988);

"Preparation of a U.S. EPA Region 9 Field Sampling Plan for

Private and State-Lead Superfund Projects (EPA, August, 1993);

U.S. EPA Region 9 Guidance for Preparing Quality Assurance

Project Plans for Superfund Remedial Projects" (EPA, September,

1989); State of California, California Regional Water Quality

Control Board - Los Angeles Region, "Work Plan Requirements For

Active Soil Gas Investigation Well Investigation Program

(WIP)"(Attachment III); any final amended or superseding versions of such documents provided by EPA; other applicable EPA guidance documents; and any report, document or deliverable prepared by

EPA because Respondents fail to comply with this Order.

- 2. All plans, schedules, and other reports that require EPA's approval and are submitted by Respondents pursuant to this Order are incorporated into this Order upon approval by EPA.
- 3. All work performed by or on behalf of Respondents pursuant to this Order shall be performed by qualified individuals and/or contractors with expertise in hazardous waste site investigation. The qualifications of the persons, contractors, and subcontractors undertaking the work for Respondents shall be subject to EPA review.
- 4. EPA will oversee Respondents' activities as specified in Section 104(a)(1) of CERCLA Section, 42 U.S.C. §9604(a)(1). Respondents shall support EPA's initiation and conduct of activities carried out in its oversight responsibilities.
- 5. To provide quality assurance, maintain quality control, and satisfy chain of custody requirements, Respondent shall: (a) use a laboratory which has a documented Quality Assurance Program that complies with EPA guidance (EPA, September 1989); and (b) ensure that the laboratory used by Respondents for analysis performs such analyses according to a method or methods approved by EPA in the Field Sampling Plan and/or Quality Assurance Project Plan to be submitted by Respondents.
- 6. Respondents shall cooperate and participate with each other in performing the work required by this Order and shall coordinate their work activities with the activities of the other Respondents.

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B. Work and Deliverables

- 1. Based on the Findings of Fact, Conclusions of Law, and Determinations, EPA hereby orders Respondents to perform the following work under the direction of the EPA's Remedial Project Manager, and to comply with all the requirements of this Order. Respondents will furnish all personnel, materials, and services needed, or incidental to, performing the Investigation, except as otherwise specified in the Order.
- 2. Respondents shall initiate activities necessary to satisfy the following objectives: determine the full lateral and vertical extent of vapor phase and non-vapor phase contamination in the unsaturated (vadose) zone resulting from releases of hazardous substances at the Respondents' facility, resample soil matrix at select locations, and determine the full lateral and vertical impact of contamination to groundwater at the site. Respondents shall prepare a workplan fully addressing the elements of Attachments I, II and III. The workplan is due within 20 days after the effective date of this order.
- 3. Respondents shall maintain field and laboratory records and reports, including field logs, sample shipment records, analytical results, and quality assurance reports, to ensure that only validated analytical data are reported to and utilized by EPA. Field logs must be utilized to document observations, measurements, and significant events that occur during field activities. Laboratory reports must document sample custody, analytical responsibility, analytical results, adherence to prescribed protocols, nonconformity events, corrective measures, and/or data deficiencies. In addition, Respondents

will establish a data security system to safeguard chain-ofcustody forms and other project records to prevent loss, damage, or alteration of project documentation.

- 4. Respondents shall: (a) provide notification to EPA as described below; (b) prepare a Field Sampling Plan ("FSP"); (c) prepare a Quality Assurance Project Plan ("QAPP"); (d) prepare a Health & Safety Plan; and (e) prepare a final Remedial Investigation Report. These documents and actions are necessary to ensure that sample collection and analytical activities are conducted in accordance with technically acceptable protocols, that data quality objectives are established and met, and to otherwise meet the requirements of this Order. The Field Sampling Plan, Quality Assurance/Quality Control Plan, and Health and Safety Plan may be submitted separately or as a single document. These tasks are described below.
- 5. Respondents shall notify EPA in writing of the name, title and qualifications of the individual(s) who will be responsible for carrying out the terms of this Order, and the name(s) of all contractors or subcontractors. Notification will be provided within fourteen (14) days after the Effective Date of this Order.
- 6. If EPA disapproves in writing of any person's or contractor's technical and/or experience qualifications, EPA will notify Respondents in writing, and Respondents shall subsequently notify EPA within fourteen (14) days of Respondents' receipt of EPA's written notice, of the identity and qualifications of the replacement(s). A subsequent EPA disapproval of the

replacement(s) shall be deemed a failure to comply with the Order.

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- Subsequent to approval by EPA of the individuals, contractors, or subcontractors who will be responsible for the investigation, Respondents may propose that different individuals, contractors and/or subcontractors direct and supervise the work required by this Order. If Respondents wish to propose such a change, Respondents shall notify EPA in writing of the name, title, and qualifications of the proposed individuals and the names of proposed contractors and/or subcontractors. Any such individual, contractors and/or subcontractors shall be subject to approval by EPA. EPA shall give Respondents its approval or disapproval within fourteen (14) days of receiving from Respondents the information required by this The naming of any replacement(s) by Respondents shall not relieve Respondents of any of its obligations to perform the work required by this Order. A subsequent EPA disapproval of the replacement(s) shall be deemed a failure to comply with the Order.
- 8. Respondents shall prepare a Field Sampling Plan
 ("Sampling Plan") in accordance with EPA guidelines (EPA, April
 1990). It shall include:
- (a) a summary of the Site's geographic location,and Site geology, hydrogeology and hydrology;
- (b) a summary of the Site's operational history including the past and present locations of underground and above-ground tanks, baths, vapor degreasers, clarifiers, sumps, or other structures where solvents or other hazardous substances

are or were used, stored, or discharged;

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- (c) a compilation and review all existing Site data describing the types, locations, and quantities of hazardous substances used and/or released at the Site including a review of the results from previous sampling and clean-up activities;
- (d) a detailed list of tasks to be performed to fulfill the requirements of this Order; and
- (e) a description of sampling objectives; sample location and frequency including quality control samples, sampling equipment and methodologies; sample handling and analysis; and other aspects of the work to be performed. (Where appropriate, Respondents shall use the protocols and analytical methods addressed in documents included in the Attachment.
- 9. Respondents may cite relevant portions of these documents in the Field Sampling Plan and Quality Assurance Project Plan. Respondents shall evaluate and incorporate into the Field Sampling Plan and/or Quality Assurance Project Plan any necessary protocols and analytical methods that are not addressed in documents included in the Attachment.
- Effective Date of this Order. The Final Sampling Plan is due 15

 days after Respondents have received EPA comments on the Draft

 Sampling Plan. EPA must review and approve the Sampling Plan and Quality Assurance Project Plan before any field activity is initiated.
- 11. Respondents shall prepare a Quality Assurance
 Project Plan in accordance with EPA guidelines (EPA, September
 1989). It shall include (to the extent not included in the Field

Sampling Plan):

- (a) a description of data quality objectives;
- (b) a description of method(s) used in the investigation to document and record compliance with field and laboratory procedures (e.g., field logs, laboratory reports);
- (c) information sufficient to demonstrate, to EPA's satisfaction, that each laboratory used by Respondent is qualified to conduct the proposed work (e.g., ability to meet required detection and quantification limits for chemicals of concern in the media of interest);
- (d) if the selected laboratory does not participate in EPA's Contract Laboratory Program ("CLP"), Respondents must submit documentation to demonstrate that the laboratory uses methods consistent with CLP methods and quality assurance requirements (e.g., detailed information to demonstrate the adequacy of the laboratory's quality assurance program; information on personnel qualifications, equipment and material specifications);
- (e) assurances that EPA has access to laboratory personnel, equipment and records; and
- (f) other aspects of quality assurance not addressed in the Field Sampling Plan.
- 12. Respondents may reference, rather than repeat, information contained in the Field Sampling Plan or in documents listed in the Attachment if the necessary techniques, protocols and quality assurance procedures are already described in those documents.

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 - (a)
 - activities that have taken place;

- The Draft Quality Assurance Project Plan is due 30 days after the Effective Date of this Order. The Final Quality Assurance Project Plan is due 15 days after Respondents have received EPA comments on the Draft Quality Assurance Project
- Plan. EPA must review and approve the Sampling Plan and Quality

Assurance Project Plan before any field activity is initiated.

- Respondents shall prepare a Health and Safety Plan in conformance with Respondents' health and safety program, and in compliance with Occupational Safety & Health Act ("OSHA") regulations and protocols. The Health and Safety Plan will include the eleven (11) elements described in EPA Guidance (EPA, October 1988), such as a health and safety risk analysis, a description of monitoring and personal protective equipment, and
- 15. The Health & Safety Plan is due 30 days after the Effective Date of this Order.
- Respondents shall notify EPA of planned dates for 16. field activities at least ten (10) days before initiating sampling so that EPA may adequately schedule oversight tasks.
- Respondents shall notify EPA in writing upon 17. completion of field activities.
- After completing field sampling and analysis, Respondents shall prepare a draft Remedial Investigation (RI) report describing the results of the remedial investigation. EPA quidance (EPA, October 1988) provides an outline of the report format and contents. The RI report shall:
- include a review of all investigative

- (b) include an analysis and evaluation of the data to describe physical characteristics of the Precision Facility, contaminant source characteristics, the nature and extent of contamination in the unsaturated zone, and contaminant fate and transport;
- (c) describe and display data which document the location, types, physical state, and concentration of contaminants at the Site;
- (d) demonstrate that quality assurance requirements approved by EPA and specified in the Field Sampling Plan and Quality Assurance Project Plan are met; and
- (e) include as appendices a summary of all validated data, field logs, chain of custody forms, and any other information used to document the findings of the remedial investigation.
- 19. The Draft Report is due to EPA 45 days after the field work is completed. Respondents shall prepare a final Remedial Investigation report which satisfactorily addresses

 EPA's comments within 21 days after Respondents receive EPA comments on the Draft Report.
- 20. With the exception of the Health & Safety Plan, EPA shall review, comment, and approve or disapprove each plan, report, or other deliverable submitted by Respondents. All EPA comments on draft deliverables shall be incorporated by Respondents. EPA intends to review all plans (with the exception of the Health & Safety Plan), reports, or other deliverables within thirty (30) days of receipt of each document. EPA shall notify Respondents in writing of EPA's approval or disapproval of a

final deliverable or if EPA requires additional review time. In the event of any disapproval, EPA shall specify the reasons for such disapproval, EPA's required modifications, and a time frame for submission of the revised report, document, or deliverable. If the modified report, document or deliverable is again disapproved by EPA, EPA shall first notify Respondents and then may draft their own report, document or deliverable and incorporate it as part of this Order, and/or seek penalties from Respondents for failing to comply with this Order, and/or conduct the remaining work required by this Order.

other correspondence to be submitted by Respondents pursuant to this Order, shall be sent by U.S. mail to the following addressees or to such other addressees as EPA hereafter may designate in writing, and shall be deemed submitted on the date received by EPA. Respondents shall submit three (3) copies of each document to EPA, one copy to the Regional Board, and one copy to Department of Toxic Substances Control.

22. The three copies of each document to be submitted to EPA shall be sent to:

Glenn Kistner
Remedial Project Manager (H-6-5)
Hazardous Waste Management Division
U.S. EPA, Region 9
75 Hawthorne Street
San Francisco, CA 94105
Phone: (415) 744-2252

One copy shall be sent to:

Dr. Robert Ghirelli
California Regional Water Quality Control Board
101 Centre Plaza Drive
Monterey Park, CA 91754

One copy shall be sent to:

Mike Sorensen California Department of TOxic Substances Control P.O. Box 942732 Sacramento, CA 94234-7320

- 23. Field work shall begin no later than thirty (30) days after EPA has approved the Field Sampling Plan and Quality Assurance Project Plan.
- IX. SAMPLING, ACCESS, AND DATA/DOCUMENT AVAILABILITY
- A. At the request of EPA, Respondents shall provide to EPA and/or its authorized representatives split samples or duplicates of samples collected by Respondents as part of the investigation.
- B. Nothing in this Order shall be interpreted as limiting EPA's inspection or information-gathering authority under federal law.
- C. EPA personnel and/or EPA authorized representatives shall be allowed access to the laboratory and personnel used by Respondents for laboratory analyses.
- D. For purposes of this Order, EPA's authorized representatives shall include, but not be limited to, staff of the Regional Board, Department of Toxic Substances Control, and consultants and contractors hired by EPA to oversee activities required by this Order.

X. OTHER APPLICABLE LAWS

A. Respondents shall undertake all actions required by this Order in accordance with the requirements of all applicable local, state, and federal laws and regulations unless an exemption from such requirements is specifically provided under CERCLA or unless Respondents obtain a variance or exemption from

the appropriate governmental authority.

B. Any materials removed from the Site shall be disposed of or treated at a facility in accordance with Section 121(d)(3) of CERCLA, 42 U.S.C. §9621(d)(3), EPA's Revised Off-Site Policy, and all other applicable Federal, State and local requirements.

XI. RECORD PRESERVATION

Respondents shall maintain, during the pendency of this
Order and for a minimum of twenty (20) years after EPA provides
notice to Respondents that the work has been completed, a central
depository of the records and documents required to be prepared
under this Order. In addition, Respondents shall retain copies
of the most recent version of all documents that relate to
hazardous substances at the Site and that are in its possession
or in the possession of its employees, agents, contractors, or
attorneys. After this twenty year period, Respondents shall
notify EPA at least thirty (30) days before the documents are
scheduled to be destroyed. If EPA so requests, Respondents shall
provide these documents to EPA.

XII. DESIGNATED PROJECT MANAGERS

A. EPA designates Glenn Kistner, an employee of Region 9 of EPA, as its Remedial Project Manager ("RPM") who shall have the authorities, duties, and responsibilities vested in the RPM by the NCP. Within fifteen (15) days of the Effective Date of this Order, Respondents shall designate a Project Coordinator who shall be responsible for overseeing Respondents' implementation of this Order. The EPA RPM will be EPA's designated representative at the facility. To the maximum extent possible, all oral communications between Respondents and EPA concerning

the activities performed pursuant to this Order shall be directed through EPA's RPM and Respondents' Project Coordinator. All documents, including progress and technical reports, approvals, and other correspondence concerning the activities performed pursuant to the terms and conditions of this Order, shall be delivered in accordance with Paragraph VIII B.22.

- B. EPA and Respondents may change their respective RPM and Project Coordinator. Such a change shall be accomplished by notifying the other party in writing at least seven (7) days prior to the change except in the case of an emergency, in which case notification shall be made orally followed by written notification as soon as possible.
- C. Consistent with the provisions of this Order, the EPA RPM shall also have the authority vested in the On-Scene Coordinator ("OSC") by the NCP, unless EPA designates a separate individual as OSC, who shall then have such authority. This includes, but is not limited to, the authority to halt, modify, conduct, or direct any tasks required by this Order and/or undertake any response actions (or portions of the response action) when conditions present or may present a threat to public health or welfare or the environment as set forth in the NCP.
- D. The absence of the EPA RPM or the OSC from the Site shall not be cause for the stoppage of work. Nothing in this Order shall limit the authority of the EPA RPM or OSC under federal law.

XIII. MODIFICATION OF WORK REQUIRED

A. In the event of unanticipated or changed circumstances

at the facility, Respondents shall notify the EPA RPM by telephone within twenty-four (24) hours of discovery of the new or changed circumstances. This verbal notification shall be followed by written notification postmarked within three (3) days of discovery of the new or changed circumstances.

B. The Director may determine that in addition to tasks addressed herein, additional work may be required. Where consistent with Section 106(a) of CERCLA, the Director may direct as an amendment to this Order that Respondents perform these response actions in addition to those required herein by any plan. Respondents shall implement the additional tasks which the Director identifies. The additional work shall be completed according to the standards, specifications, and schedules set forth by the Director.

XIV. SITE ACCESS

- A. Respondents shall permit EPA and its authorized representatives to have access at all times to the Site to monitor any activity conducted pursuant to this Order to conduct such tests or investigations as EPA deems necessary. Nothing in this Order shall be deemed a limit upon EPA's authority under federal law to gain access to the Site.
- B. To the extent that Respondents require access to land other than land they own in carrying out the terms of this Order, Respondents shall, within forty-five (45) days of the Effective Date of this Order, obtain access for EPA, its contractors and oversight officials; state oversight officials and state contractors; and Respondents or their authorized representatives. If Respondents fail to gain access within forty-five (45) days,

they shall continue to use best efforts to obtain access until access is granted. For purposes of this paragraph, "best efforts" includes but is not limited to, seeking judicial assistance and the payment of money as consideration for access. If access is not provided within the time referenced above, EPA may obtain access under Sections 104(e) or 106(a) of CERCLA.

XV. DELAY IN PERFORMANCE

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- A. Any delay in performance of this Order that, in the EPA's judgment, is not properly justified by Respondents under the terms of this Section shall be considered a violation of this Order. Any delay in performance of this Order shall not affect Respondents' obligations to fully perform all obligations under the terms and conditions of this Order.
- в. Respondents shall notify EPA of any delay or anticipated delay in performing any requirement of this Order. Such notification shall be made by telephone to EPA's RPM within twenty-four (24) hours after Respondents first knew or should have known that a delay might occur. Respondents shall adopt all reasonable measures to avoid or minimize any such delay. three (3) days after notifying EPA by telephone, Respondents shall provide written notification fully describing the nature of the delay, any justification for delay, any reason why Respondents should not be held strictly accountable for failing to comply with any relevant requirements of this Order, the measures planned and taken to minimize the delay, and a schedule for implementing the measures that will be taken to mitigate the effect of the delay. Increased costs or expenses associated with implementation of the activities called for in this Order are not

justifications for any delay in performance.

- C. If Respondents are unable to perform any activity or submit any document within the time required under this Order, Respondents may, prior to the expiration of the time, request an extension of time in writing. The extension request shall include a justification for the delay. Submission of an extension request shall not affect Respondents' obligation to comply with the requirements of this Order.
- D. If EPA determines that good cause exists for an extension of time, it may grant a request made pursuant to Subparagraph C, above, and specify in writing a new schedule for completion of the activity and/or submission of the document.

 XVI. ENDANGERMENT AND EMERGENCY RESPONSE
- A. In the event of any action or occurrence during the performance of the work which causes or threatens to cause a release of a hazardous substance or which may present an immediate threat to public health or welfare or the environment, Respondents shall immediately take all appropriate action to prevent, abate, or minimize the threat, and shall immediately notify EPA's RPM, or, if the RPM is unavailable, EPA's OSC. If neither of these persons is available, Respondents shall notify the EPA Emergency Response Unit, Region 9, phone number (415) 744-2000. Respondents shall take such action in consultation with EPA's RPM and in accordance with all applicable provisions of this Order, including but not limited to the Health and Safety Plan.
- B. Nothing in the preceding paragraph shall be deemed to limit any authority of the United States to take, direct, or

order all appropriate action to protect human health and the environment or to prevent, abate, or minimize an actual or threatened release of hazardous substances on, at, the Site.

XVII. ASSURANCE OF ABILITY TO COMPLETE WORK

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- Α. Respondents shall demonstrate their ability to complete the work required by this Order and to pay all claims that arise from the performance of the work by obtaining and presenting to EPA within thirty (30) days after approval of the Work Plan , one of the following: (1) a performance bond; (2) a letter of credit; (3) a guarantee by a third party; or (4) internal financial information to allow EPA to determine that Respondents have sufficient assets available to perform the work. Respondents shall demonstrate financial assurance in an amount no less than the estimate of cost for the remedial investigation. If Respondents seek to demonstrate ability to complete the remedial investigation by means of internal financial information, or by quarantee of a third party, Respondents shall re-submit such information every six months from the Effective Date of this If EPA determines that such financial information is Order. inadequate, Respondents shall, within fifteen (15) days after receipt of EPA's notice of determination, obtain and present to EPA for approval on the other forms of financial assurance listed above.
- B. At least twenty-one (21) days prior to commencing any work at the Site pursuant to this Order, Respondents shall submit to EPA a certification that Respondents or their contractors and subcontractors have adequate insurance coverage or has indemnification for liabilities for injuries or damages to

persons or property which may result from the activities to be conducted by or on behalf of Respondents pursuant to this Order. Respondents shall ensure that such insurance or indemnification is maintained for the duration of performance of the work required by this Order.

XVIII. DISCLAIMER

The United States, by issuance of this Order, assumes no liability for any injuries or damages to persons or property resulting from acts or omissions by Respondents, or their employees, agents, successors, assigns, contractors, or consultants in carrying out any action or activity pursuant to this Order. Neither EPA nor the United States shall be held as a party to any contract entered into by Respondents, or their employees, agents, successors, assigns, contractors, or consultants in carrying out any action or activity pursuant to this Order.

XIX. ENFORCEMENT AND RESERVATIONS

- A. EPA reserves the right to bring an action against Respondents or any single Respondent under Section 107 of CERCLA, 42 U.S.C. §9607, for recovery of any response costs incurred by the United States related to this Order and not reimbursed by Respondents. This reservation shall include but not be limited to past costs, direct costs, indirect costs, the costs of oversight, the costs of compiling the cost documentation to support oversight cost demand, as well as accrued interest as provided in Section 107(a) of CERCLA, 42 U.S.C. §9607.
- B. Notwithstanding any other provision of this Order, at any time during the response action, EPA may perform its own

studies, complete the response action (or any portion of this response action) and seek reimbursement from Respondents or any single Respondent, for its costs, or seek any other appropriate relief.

- C. Nothing in this Order shall preclude EPA from taking any additional enforcement action, including modification of this Order or issuance of additional Orders, and/or additional remedial or removal actions as EPA may deem necessary, or from requiring Respondents or any single Respondent in the future to perform additional activities pursuant to CERCLA, 42 U.S.C. \$9607(a), et seq., or any other applicable law. Respondents or any single Respondent shall be liable under CERCLA Section 107(a), 42 U.S.C. §9607(a), for the costs of any such additional actions.
- D. Notwithstanding any provision of this Order, the United States hereby retains all of its information gathering, inspection and enforcement authorities and rights under CERCLA, the Resource Conservation and Recovery Act ("RCRA"), or any other applicable statutes or regulations.
- E. Each Respondent shall be subject to civil penalties under Section 106(b) of CERCLA, 42 U.S.C. §9606(b), of not more than \$25,000 for each day in which the Respondent willfully violates or fails to comply with the requirements of this Order. In addition, failure to take response action in compliance with this Order, or any portion hereof, without sufficient cause, may result in liability under Section 107(c)(3) of CERCLA, 42 U.S.C. §9607(c)(3), for punitive damages in an amount at least equal to, and not more than three (3) times the amount of any costs

incurred by the Hazardous Substance Superfund, as a result of such failure to comply.

- F. Notwithstanding compliance with the terms of this Order, including the completion of an EPA-approved remedial investigation, Respondents are not released from liability, if any, for any enforcement actions beyond the terms of this Order taken by EPA.
- G. EPA reserves the right to take any enforcement action pursuant to CERCLA and/or any other legal authority, including the right to seek injunctive relief, monetary penalties, reimbursement of response costs, and punitive damages for any violation of law or this Order.
- H. EPA expressly reserves all rights and defenses that it may have, including the EPA's right both to disapprove of work performed by Respondents and to request that Respondents perform tasks in addition to those detailed in this Order, as provided in Section VIII (Work to be Performed) of this Order. EPA reserves the right to undertake removal actions and/or remedial actions at any time. EPA reserves the right to seek reimbursement from Respondents for the costs incurred by the United States in removal and remedial actions.
- I. This Order does not release Respondents from any claim, cause of action or demand in law or equity, including, but not limited to, any claim, cause of action, or demand which lawfully may be asserted by representatives of the United States or the State of California.
- J. No informal advice, guidance, suggestions, or comments by EPA regarding reports, plans, specifications, schedules, and

any other writing submitted by Respondents will be construed as relieving Respondents of their obligation to obtain such formal approval as may be required by this Order.

NOTICE OF INTENT TO COMPLY XX.

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Each Respondent shall notify EPA in writing within two (2) days of the Effective Date of this Order of Respondent's irrevocable intent to comply with the terms of this Order. Failure to respond, or failure to agree to comply with this Order, shall be deemed a refusal to comply with this Order.

XXI. OPPORTUNITY TO CONFER

- Each Respondent may, within three (3) days of receipt Α. this Order, request a conference with EPA's Director of the Hazardous Waste Management Division, or whomever the Director may designate. If requested, the conference shall occur within seven (7) days of the request, unless extended by mutual agreement of the Parties, at EPA's Regional Office, 75 Hawthorne Street, San Francisco, California.
- At any conference held pursuant to Respondents' В. request, Respondents may appear in person, or be represented by an attorney or other representative. If Respondents desire such a conference, the Respondents shall contact Dave Rabbino, Assistant Regional Counsel, at (415) 744-1334.
- c. The purpose and scope of any such conference held pursuant to this Order shall be limited to issues involving the implementation of the response actions required by this Order and the extent to which Respondents intend to comply with this Order. If such a conference is held, Respondents may present any evidence, arguments or comment regarding this Order, its

applicability, any factual determinations upon which the Order is based, the appropriateness of any action which Respondent is ordered to take, or any other relevant and material issue. Any such evidence, arguments or comments should be reduced to writing and submitted to EPA within three (3) calendar days following the conference. This conference is not an evidentiary hearing, and does not constitute a proceeding to challenge this Order. It does not give Respondents a right to seek review of this Order, or to seek resolution of potential liability, and no official stenographic record of the conference will be made. If no conference is requested, any such evidence, arguments or comments must be submitted in writing within three (3) calendar days following the Effective Date of this Order. Any such writing should be directed to Dave Rabbino, Assistant Regional Counsel, at the address cited above.

D. Respondents are hereby placed on notice that EPA will take any action which may be necessary in the opinion of EPA for the protection of public health and welfare and the environment, and Respondents may be liable under Section 107(a) of CERCLA, 42 U.S.C. Section 9607(a), for the costs of those government actions.

XXII. SEVERABILITY

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If any provision or authority of this Order or the application of this Order to any circumstance is held by a court to be invalid, the application of such provision to other circumstances and the remainder of this Order shall not be affected thereby, and the remainder of this Order shall remain in force.

XXIII. PENALTIES FOR NONCOMPLIANCE

Each Respondent is advised pursuant to Section 106(b) of CERCLA, 42 U.S.C. Section 9606(b), that willful violation or subsequent failure or refusal to comply with this Order, or any portion thereof, may subject the Respondent to a civil penalty of up to \$25,000 per day for each day in which such violation occurs, or such failure to comply continues. Failure to comply with this Order, or any portion thereof, without sufficient cause may also subject the Respondent to liability for punitive damages in an amount three times the amount of any cost incurred by the government as a result of the failure of the Respondent to take proper action, pursuant to Section 107(c)(3) of CERCLA, 42 U.S.C. Section 9607(c)(3).

XXIV. REIMBURSEMENT OF OVERSIGHT COSTS

Respondents shall reimburse EPA, upon written demand, for all response costs incurred by the United States in overseeing Respondents' implementation of the requirements of this Order. EPA may submit to Respondents on a periodic basis a bill for all response costs incurred by the United States with respect to this Order. EPA's cost summary documentation package shall serve as the basis for payment demands.

Respondents shall, within ten (10) days of receipt of the bill, remit a cashiers or certified check for the amount of those costs made payable to the "Hazardous Substance Superfund," to the following address:

> Attn: Superfund Accounting U.S. EPA P.O. Box 360863M Pittsburg, Pa. 15251

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Respondent shall simultaneously transmit a copy of the check to:

Glenn Kistner
Remedial Project Manager (H-6-5)
Hazardous Waste Management Division
U.S. EPA, Region 9
75 Hawthorne Street
San Francisco, CA 94105

Payments shall be designated as "Response Costs- Ted Levine Drum" and shall reference the payor's name and address, the EPA site identification number, and the docket number of this Order.

Interest at the rate established under Section 107(a) of CERCLA shall begin to accrue on the unpaid balance from the day of the original demand notwithstanding any dispute or objection to any portion of the costs.

XXV. EFFECTIVE DATE

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This Order is effective three (3) calendar days following receipt by Respondents unless a conference is requested as provided herein. If such a conference is requested, this Order shall be effective the second (2nd) calendar day following the day of such conference unless modified in writing by EPA.

XXV. TERMINATION AND SATISFACTION

The provisions of this Order shall be deemed satisfied upon Respondents' receipt of written notice from EPA that Respondents have demonstrated, to the satisfaction of EPA, that all of the terms of this Order, including any additional tasks which EPA has determined to be necessary, have been completed.

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1	IT IS SO ORDERED:						
2		UNITED STATES					
3		ENVIRONMENTAL PROTECTION AGENCY					
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5	ву:	Of 3 3 like an -	Date:	2-3-94			
6	By.	Jeff Zelikson Director	Date.				
7		Hazardous Waste Management Division Region 9					
8		region 5					
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EPA Region 9 Contacts:

Glenn Kistner
Remedial Project Manager (H-6-5)
Hazardous Waste Management Division
U.S. EPA, Region 9
75 Hawthorne Street
San Francisco, CA 94105
(415) 744-2252

Dave Rabbino
Assistant Regional Counsel
Office of Regional Counsel
U.S. EPA, Region 9
75 Hawthorne Street
San Francisco, CA 94105
(415) 744-1334

ATTACHMENT I

The following list, although not comprehensive, comprises many of the regulations and guidance documents that apply to the Investigation process:

The (revised) National Contingency Plan

"Guidance for Conducting Remedial Investigations and Feasibility Studies Under CERCLA," U.S. EPA, Office of Emergency and Remedial Response, October 1988, OSWER Directive No. 9355.3-01.

"Interim Guidance on Potentially Responsible Party Participation in Remedial Investigation and Feasibility Studies," U.S. EPA, Office of Waste Programs Enforcement, Appendix A to OSWER Directive No. 9355.3-01.

"A Compendium of Superfund Field Operations Methods," Two Volumes, U.S. EPA, Office of Emergency and Remedial Response, EPA/540/P-87/001a, August 1987, OSWER Directive No. 9355.0-14.

"EPA NEIC Policies and Procedures Manual," May 1978, revised November 1984, EPA-330/9-78-001-R.

"Data Quality Objectives for Remedial Response Activities," U.S.EPA, Office of Emergency and Remedial Response and Office of Waste Programs Enforcement, EPA/540/G-87/003, March 1987, OSWER Directive No. 9335.0-7B.

"U.S. EPA Region 9 Guidance for Preparing Quality Assurance Project Plans for Superfund Remedial Projects," 9QA-03-00, U.S. EPA Region 9 QAMs, September 1989.

"Users Guide to the EPA Contract Laboratory Program," U.S. EPA, Sample Management Office, August 1988.

"Health and Safety Requirements of Employees Employed in Field Activities," U.S. EPA, Office of Emergency and Remedial Response, July 12, 1981, EPA Order No. 1440.2.

OSHA Regulations in 29 CFR 1910.120 (Federal Register 45654, December 19, 1986).

Preparation of a U.S. EPA Region 9 Field Sampling Plan for Private and State-Lead Superfund Projects, Document Control Number 9QA-06-89, August, 1993, U.S. EPA Region 9, Quality Assurance Management Section.

ATTACHMENT II

The workplan shall fully address the requirements of Attachments I and III in addition to the following specific requirements:

Soil Gas Investigation

- 1. Vapor probes shall be installed at 5 and 15 feet bgs with a limited number of selected probes to approximately 25 feet bgs (depending on lithology and groundwater elevation).
 - a) 15-foot deep vapor probes shall be installed on a regular basis, but not necessarily duplicating each 5 foot probe. Generally, this shall be at a minimum of five locations in a given area to develop any relationship to the shallower spatial pattern(s). Decisions as to the 15-foot probes need to be keyed to results of the shallower survey, and to the presence of below-grade source-type structures such as the industrial waste clarifier or any of the sumps.
 - b) At a minimum one 25-foot deep vapor probe shall be installed in each area based on the spatial pattern resulting from the 15-foot probes.
 - In addition to the spatial data, Respondents shall provide vertical profile information through nested probes installed at a minimum of three locations to ground water. The probes shall be monitored at least three times. Suggested intervals are one, three, and seven weeks.
- 2. Unless otherwise agreed to by EPA, lateral spacing on the 5-foot vapor probes shall be a minimum of 20 feet. As necessary, the initial array may be subject to iteration to lesser spacing to assure evaluation of particular sources and/or expansion to establish the margins of the affected area(s). Decisions regarding such changes shall be based upon field evaluation of the initial soil gas data sets.
- 3. Respondents shall provide representative measures of soil moisture conditions at the time and depths of soil gas sampling in each of the areas to be investigated.
- 4. Indications of vertical anisotropy (either due to soil/lithologic type changes, moisture variations, porosity effects, etc.), lateral vapor barriers or other conditions affecting vapor phase distributions

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shall be recorded by Respondents.

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- Data collected during field sampling and laboratory analyses shall be compiled in tabular format, results reported as weight/volume (i.e., μ g/l) and provided with the final report. A table of vacuum readings at each vapor probe shall also be compiled.
- 6. All areas of the site at which chlorinated VOCs were detected in previously collected soil samples shall be addressed. Furthermore, an acceptable number and distribution of vapor probes shall be installed to fully assess all areas of the site as noted previously by RWQCB staff. In order to assure validity of spatial patterns "step-out" to the point of "no-detect" is required.
- 7. Deep driven or nested vapor probes shall be installed as part of this program. These may be installed in the annular space of groundwater monitoring wells or on an individual basis. Locations for vapor probes shall be selected after consultation with EPA and RWQCB staff and based on review of the soil vapor and previous soil matrix data.

Selective Soil Matrix Resampling

Resampling of soil matrix shall be performed at the following locations because prior samples exceeded EPA's maximum allowable holding time for VOCs:

- 1. The former industrial waste clarifier (HA-1)
- 2. Caustic rinse floor drain "D" (HA-7)
- 3. Foundry cooling tower floor drain "F" (HA-4)
- 4. Sump outside "dip room" (HA-3)
- 5. Sand trap along "underground line/grated drain" (HA-5)
- 6. "Underground line/grated drain" (HA-6)
- 7. Septic tank and leachfield area (B4)

Resampling of soil matrix shall be performed at the following locations because prior samples were held in excess of seven days before analysis and therefore may not be representative of VOCs present:

- 1. Caustic room floor (presumed former waste lagoon) (B1 and B2)
 - x-ray darkroom drain/sump "A"
 - 3. Pent/Mag room sump/drains "B and "C"
- 25 4. Compressor room floor drain "E"

The following locations shall be sampled because of Respondents' prior failure to sample these areas:

1. Heat treat room cooling tower sump "I"

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2. Wash-up sump/drain

Groundwater Investigation

- 1. Contamination from the site may have already reached groundwater and created or contributed to contamination measured in nearby public drinking water wells. Specifically, site specific flow direction, lateral and vertical components of gradient and distribution of contamination shall be established.
- 2. The groundwater investigation shall proceed on a parallel track with the determination of full lateral and vertical distribution of soil contamination.
- 3. EPA's Technical Enforcement Guidance Document (TEGD), Cal-EPA Department of Toxic Substance Control's (DTSC) Preliminary Environmental Assessment guidelines, "SUPPLEMENTARY ENGINEERING/GEOLOGIC SUBSURFACE INVESTIGATION," and appropriate American Society of Testing and Materials (ASTM) protocols shall be utilized in the preparation of the workplan.
- 4. An acceptable systematic workplan to assess groundwater contamination shall include the following at a minimum:
 - a. Delineate the full lateral extent of groundwater contamination in the saturated zone(s).
 - b. Delineate the full vertical extent of groundwater contamination in the saturated zone(s).
 - c. Monitor groundwater per a detailed program and testing schedule.
 - d. Specify aquifer characteristics for uppermost and lowermost saturated zones, including vertical gradient component.
 - e. Evaluate hydraulic connectivity existing between any discrete saturated zones.
- 5. Site-specific flow direction and gradient shall be fully developed through the installation of three to five piezometers. These determinations are crucial to proper evaluation of downgradient groundwater contamination and positioning of monitoring well(s). Such positioning shall take into account the site-specific flow direction, potential source areas and information from existing monitoring wells in the vicinity.
- 6. The assessment shall include a minimum of eight fully designed and constructed monitoring wells. Upgradient and downgradient groundwater conditions must be

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established, therefore, a minimum of two wells shall be installed in upgradient positions. A minimum of three wells shall be installed in near-field positions directly downgradient of known sources. Specific locations for the near-field wells should be proposed based on review of the soil vapor and soil matrix data. Therefore, the wells may be installed after completion of the soil vapor work. In addition, a minimum of three wells shall be installed further downgradient of the near-field source wells to begin delineation of the lateral extent of contamination.

7. A groundwater monitoring plan for quarterly monitoring of all site wells shall be provided, including a detailed description of sampling and analytical protocols.